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A parallel multi-block **black-oil** model in multi-model implementation

L Qin, P Maigorzata, M Wheeler - SPE Reservoir Simulation ..., 2001 - onepetro.org
... processes or mathematical models or by differences in the numerical discretization models applied to different parts of the **simulation** domain ... single-phase or a two-phase model is needed for the aquifer part of the reservoir, while a **black-oil** model or a **compositional** model is ...

Cited by 27 - Related articles - BL Direct - All 5 versions

Simulation of **compositional** reservoir phenomena on a distributed-memory parallel ...

JE Killough, R Bhogeswara - Journal of Petroleum Technology, 1991 - onepetro.org
... connected in some fashion for communica- tion of data and **synchronization** (Fig. ... Wheeler and Smith6 showed that **black-oil** modeling could be performed efficiently on a ... **Compositional Simulator**
The commercial n-component, three-phase, equation-of-state (EOS) model VIP ...

Cited by 22 - Related articles - All 4 versions

The Use of Vectorization and Parallel Processing for Reservoir Simulation

MCH Chien, ML Wasserman, HE Yardumian, ... - ... Reservoir Simulation, 1987 - onepetro.org
... work was done in parallel processing. This work is intended carbon components are considered unimportant in **black oil** or **compositional** processes, but are important ... This section describes the application of the above men- tioned principles to the general purpose **simulator**. ...

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A General Purpose Controller for Coupling Multiple Reservoir Simulations and ...

K Ghorayeb, J Holmes, R Torrens, B ... - SPE Reservoir Simulation ..., 2003 - onepetro.org
... This has previously been described for the case of a single reservoir **simulation** coupled to a ... system of multiple reservoirs.11 • The use of different PVT models (**black oil** models and ... and Litvak and Wang14 used an implicit scheme to couple a **compositional** reservoir model with ...

Cited by 16 - Related articles - All 2 versions

Field Planning Using Integrated Surface/Subsurface Modeling

K Ghorayeb, J Holmes, R Torrens - SPE Middle East Oil and Gas ..., 2005 - onepetro.org
... Illustrated in this paper is some of the functionality that is enabled by integrated surface/subsurface modeling. In the following examples, advanced **black oil** and **compositional** reservoir **simulators** are used. ...

Cited by 11 - Related articles - All 2 versions

Parallel computing in the **black oil** model

J Liu, Z Chen, RE Ewing, G Huan, B Li, ... - Current trends in ..., 2003 - books.google.com
... The **black oil** model is a simplified **compositional** model. ... PARALLEL COMPUTING IN THE **BLACK OIL** MODEL 261 [8] Origin 2000 and Onyx2 performance tuning and ... Paper SPE 5729 presented at the SPE-AIME Fourth Symposium on Numerical **Simulation** of Reservoir ...

Cited by 2 - Related articles - BL Direct - All 2 versions

Parallelization of a **compositional** reservoir **simulator**

H Reime, G Øye, M Espedal, G Fladmark - Numerical Treatment of ..., 2000 - Springer
... 2 **Compositional** Flow Model ... Even though our general **simulator** (SOM) [12, 18] includes this complex mathematical model, we have mostly used a simplified version of the model, named the symmetric **Black Oil** (SBO) model [11]. The phase calculation in this model is ...

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Implementation of an adaptive implicit method

LC Young, TF Russell - SPE Symposium on Reservoir **Simulation**, 1993 - onepetro.org

... a horizontal 5-spot quadrant 3. A 3-D, 3-phase **black oil simulation**, the SPE ... a standard comparison problem which was considered previously 3.8 It includes **compositional** effects in ... is 0.10, the maximum CFL numbers actually calculated during the IMPES **simulation** were less ...

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Application of parallel (MIMD) computers to reservoir **simulation**

SL Scott, RL Wainwright, R Raghavan, H ... - ... on Reservoir **Simulation**, 1987 - onepetro.org

... Forming matrix coefficients for the multiphase case will then be discussed for both **black oil** and **compositional** simulation. ... A single phase, five point discretized, two dimensional areal **simulator** is used to illustrate the types of operations performed to calculate matrix coef ...

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[CITATION] **Simulation of Compositional Reservoir Phenomena on a Distributed-** ...

JE Killough, SPE Rao Bhogswara - Transactions of the American Institute of Mining, ..., 1991

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